

GOVERNOR'S MANSION  
HVAC UPGRADE  
DFCM # 06183310



State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION  
AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018



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DFCM DESIGN AND CODE CRITERIA

(Fee A,E: Attach and fill in applicable data for each drawing submittal)

Applicable Codes:

	Year		Year
International Building Code	2003	International Mechanical Code	2003
Planning & Design Criteria to Prevent Architectural Barriers for the Aged and the Physically Handicapped.		International Plumbing Code	2003
		Ashrae/IES Energy Code	1999
		National Electrical Code	2002

A. Occupancy and Group : B / S-1

Change in Use : Yes \_\_\_\_\_ No ☒ Mixed Occupancy : Yes ☒ No \_\_\_\_\_

B. Type of Construction (Circle) I F.R. II F.R. III 1 HR. **II-B** III 1 HR. IV N H.T. V 1 HR. V N

C. Location on Property : F.R. Ext. Walls (Hrs.): N.R. Ext. Wall Opening(s) Protection (Hrs.) N.R.

D. Occupancy separation required (Hrs.): B/R-2=2 HR

Sprinklered: Indicate Yes or No **No**

Stories : **1** or multiple

a. Actual Area<sup>2</sup> (ft ) 15,000 SF

b. Basic allowable area :

c. Allowable Area Increase due to side yards: N

d. Side yard area increase (ft ): N.A.

Accumulative sub-total (b+d):

Sprinkler: area increase (x3 single) (x 2 multi)

e. Total Allowable Area for a single story: N.A.

x 2 for multi-story building:

f. Ratio = a/e (Actual divided by allowable)

E. Fire-Resistive Requirements (Hrs.): (1 Hr., 2Hr., 3Hr., 4Hr., N. H.T.)

Exterior Bearing Walls:	N	Floors - Ceiling Floors	N
Interior Bearing Walls:	N	Roofs - Ceiling Roofs	N
Exterior Non-bearing Walls:	N	Exterior Doors and Windows	NR
Structural Frame:	N	Shaft Enclosures	1 HR
Partitions - Permanent:	N		

(OCCUPANCY SEPARATION - N.A.)

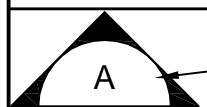
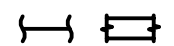

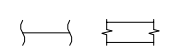
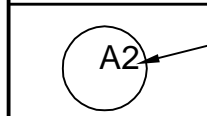
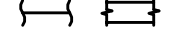
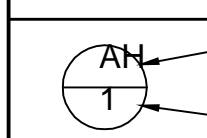
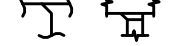
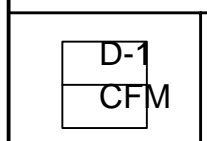
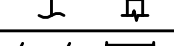
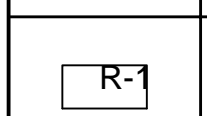
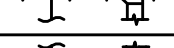

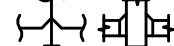
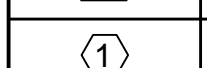
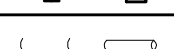
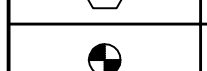
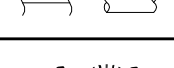
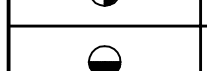




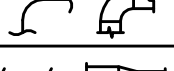
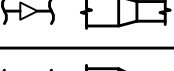
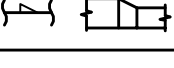
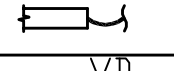




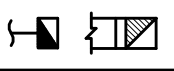

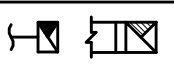
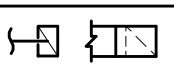
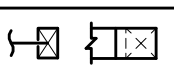
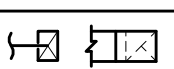
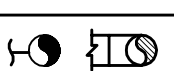
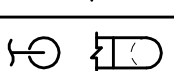
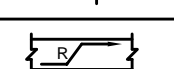
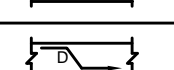
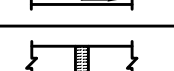
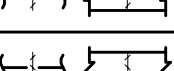
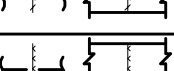
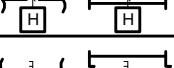
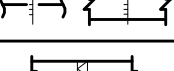
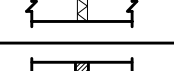


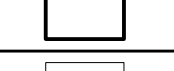
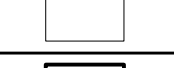


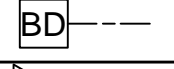
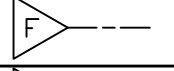
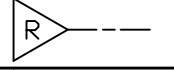
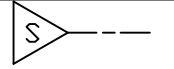
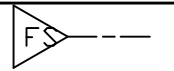
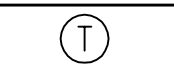
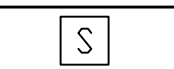


D

C

B

A

MECHANICAL LEGEND					
SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY			AIR SIDE		
		SECTION LETTER DESIGNATION			EXISTING AIR DUCT TO BE REMOVED
		SECTION DRAWN ON THIS SHEET			EXISTING AIR DUCT TO REMAIN
		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION			NEW AIR DUCT
		MECHANICAL EQUIPMENT DESIGNATION EQUIPMENT ITEM DESIGNATION			RECT. TO RECT. AIR DUCT TAKE-OFF
		REGISTER, GRILLE OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW			RECT. TO RND. AIR DUCT TAKE-OFF
		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRED			RND. TO RND. AIR DUCT TAKE-OFF
		REVISION DESIGNATOR AND NUMBER			RECT. TAKE-OFF AT END OF MAIN
		KEY NOTE DESIGNATOR AND NUMBER			BURIED OR UNDER FLOOR DUCT
	POC	POINT OF CONNECTION			FLEXIBLE AIR DUCT
	POR	POINT OF REMOVAL			LINED DUCT
AFF		ABOVE FINISHED FLOOR			VANED ELBOW
AP		ACCESS PANEL			RADIUS ELBOW
	EL	CENTER LINE ELEVATION			CONCENTRIC DUCT TRANSITION
INV. ELEV.		INVERT ELEVATION			ECCENTRIC DUCT TRANSITION
GC		GENERAL CONTRACTOR			FLEXIBLE DUCT CONNECTION
MC		MECHANICAL CONTRACTOR			VOLUME DAMPER
CC		CONTROL CONTRACTOR			SUPPLY AIR DIFFUSER
EC		ELECTRICAL CONTRACTOR			RETURN AIR, FRESH AIR, AND TRANSFER AIR
FPC		FIRE PROTECTION CONTRACTOR			CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE
NIC		NOT IN CONTRACT			RETURN OR OUTSIDE AIR DUCT UP
NTS		NOT TO SCALE			SUPPLY DUCT UP
VCP		VITRIFIED CLAY PIPE			EXHAUST AIR INTAKE UP
C		COMMON			RETURN OR OUTSIDE AIR DUCT DOWN
NC		NORMALLY CLOSED			SUPPLY DUCT DOWN
NO		NORMALLY OPEN			EXHAUST DUCT DOWN
					ROUND DUCT UP
					ROUND DUCT DOWN
					RAISE DUCT UP
					LOWER DUCT DOWN
					FLEXIBLE DUCT CONNECTION
					PARALLEL BLADE DAMPER
					OPPOSED BLADE DAMPER
					HUMIDIFIER
					AIRFLOW MEASURING STATION
					FILTER BANK
					COIL
				AP	ACCESS PANEL
					EXISTING EQUIPMENT TO BE REMOVED
					EXISTING EQUIPMENT TO REMAIN
					NEW EQUIPMENT
				M	MVD MOTORIZED VOLUME DAMPER
				BD	BD BACKDRAFT DAMPER
				FD	FD FIRE DAMPER
				RD	RD RADIATION TYPE FIRE DAMPER
				SD	SD SMOKE DAMPER
				FS	FS FIRE & SMOKE DAMPER
				TSTAT	WALL MOUNTED THERMOSTAT
				S	WALL MOUNTED TEMP. SENSOR
				HSTAT	WALL MOUNTED HUMIDISTAT
				FSTAT	WALL MOUNTED FIRESTAT
			SA		SUPPLY AIR
			RA		RETURN AIR
			EA		EXHAUST AIR
			OA		OUTSIDE AIR
			MA		MIXED AIR
			FA		FRESH AIR
			RF		RELIEF AIR

MECHANICAL GENERAL NOTES:

GM-1 MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

GM-2 ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.

GM-3 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

GM-4 THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

GM-5 THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

GM-6 MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.

GM-7 SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

GM-8 PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.

GM-9 PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

GM-10 THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED ON ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

GM-11 THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS. MOTOR NAMEPLATE VOLTAGE SHALL BE NEMA STANDARD 200 VOLT FOR 208 VOLT, THREE PHASE SYSTEM AND SHALL BE NEMA STANDARD 230 VOLT FOR 240 VOLT, THREE PHASE, OR SINGLE PHASE SYSTEM. STARTER HEATER INSTALLED SHALL BE COORDINATED WITH THE NAMEPLATE DATA.

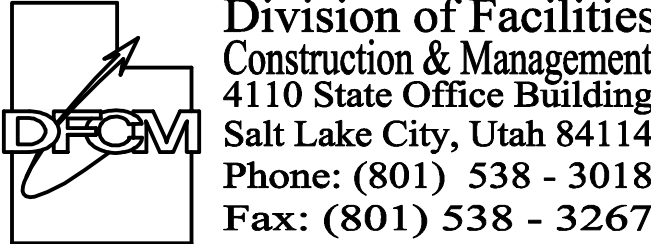
GM-12 C.F.M. LISTED IS ACTUAL AIR.

GM-13 SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

GM-14 CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

GM-15 THE MECHANICAL INSTALLATION SHALL CONFORM TO THE 2003 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

State of Utah  
Department of Administrative Services



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CONSULTANTS



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PROJECT NAME & ADDRESS

GOVERNOR'S  
MANSION  
HVAC REPLACEMENT

DFCM# 06182310

SALT LAKE CITY, UTAH

MARK	DATE	REVISION

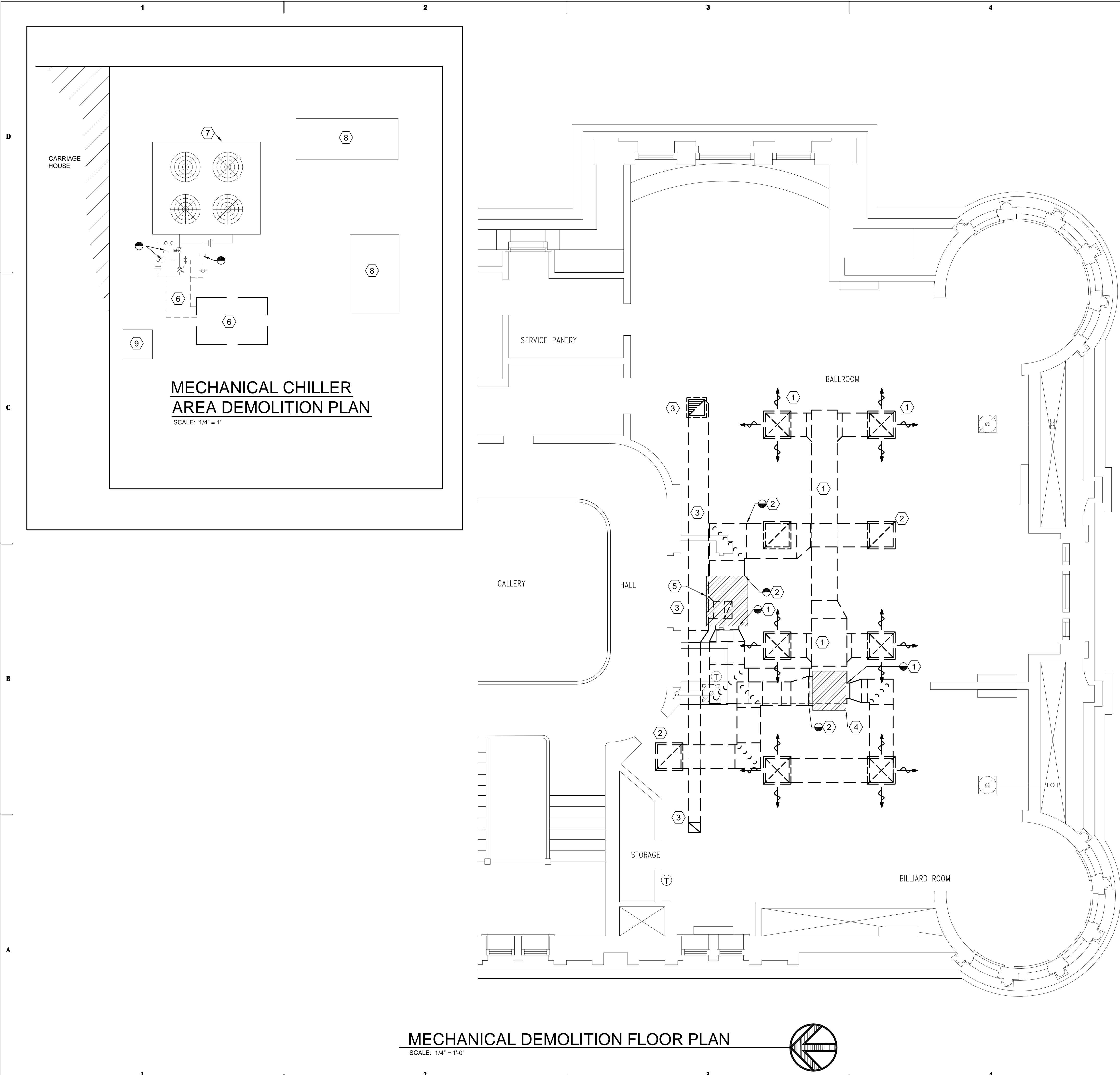
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WP	
DRAWN BY:	
STAFF	
CHECKED BY:	
SLW	
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WHW JOB NO.:	06017
SHEET TITLE	

MECHANICAL GENERAL  
NOTES AND LEGEND

SHEET NO.

M001



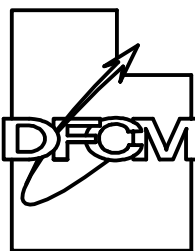


## SHEET NOTES

- 1 REMOVE EXISTING SUPPLY DUCT AND DIFFUSERS.
- 2 REMOVE EXISTING RETURN DUCT AND DIFFUSERS.
- 3 REMOVE EXISTING FRESH AIR DUCT AND ASSOCIATED FRESH AIR DAMPERS, PENTHOUSE, ETC.
- 4 ADDITIVE ALTERNATE #1: REPLACE EXISTING FAN COIL UNIT FC-5.
- 5 ADDITIVE ALTERNATE #2: REPLACE EXISTING FAN COIL UNIT FC-1.
- 6 REMOVE EXISTING SMALL WINTER CHILERS AND CAP PIPING.
- 7 EXISTING 40 TON CHILLER AND PIPING SHALL REMAIN.
- 8 EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN.
- 9 EXISTING CONDESING UNIT SHALL REMAIN.

## State of Utah

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## PROJECT NAME & ADDRESS

**GOVERNOR'S  
MANSION  
HVAC REPLACEMENT**

DFCM# 06182310

SALT LAKE CITY, UTAH

MARK	DATE	REVISION

PROJECT MANAGER:

WP

DRAWN BY:

STAFF

CHECKED BY:

SLW

DATE:

07/28/06

WHW JOB NO.:

06017

SHEET TITLE

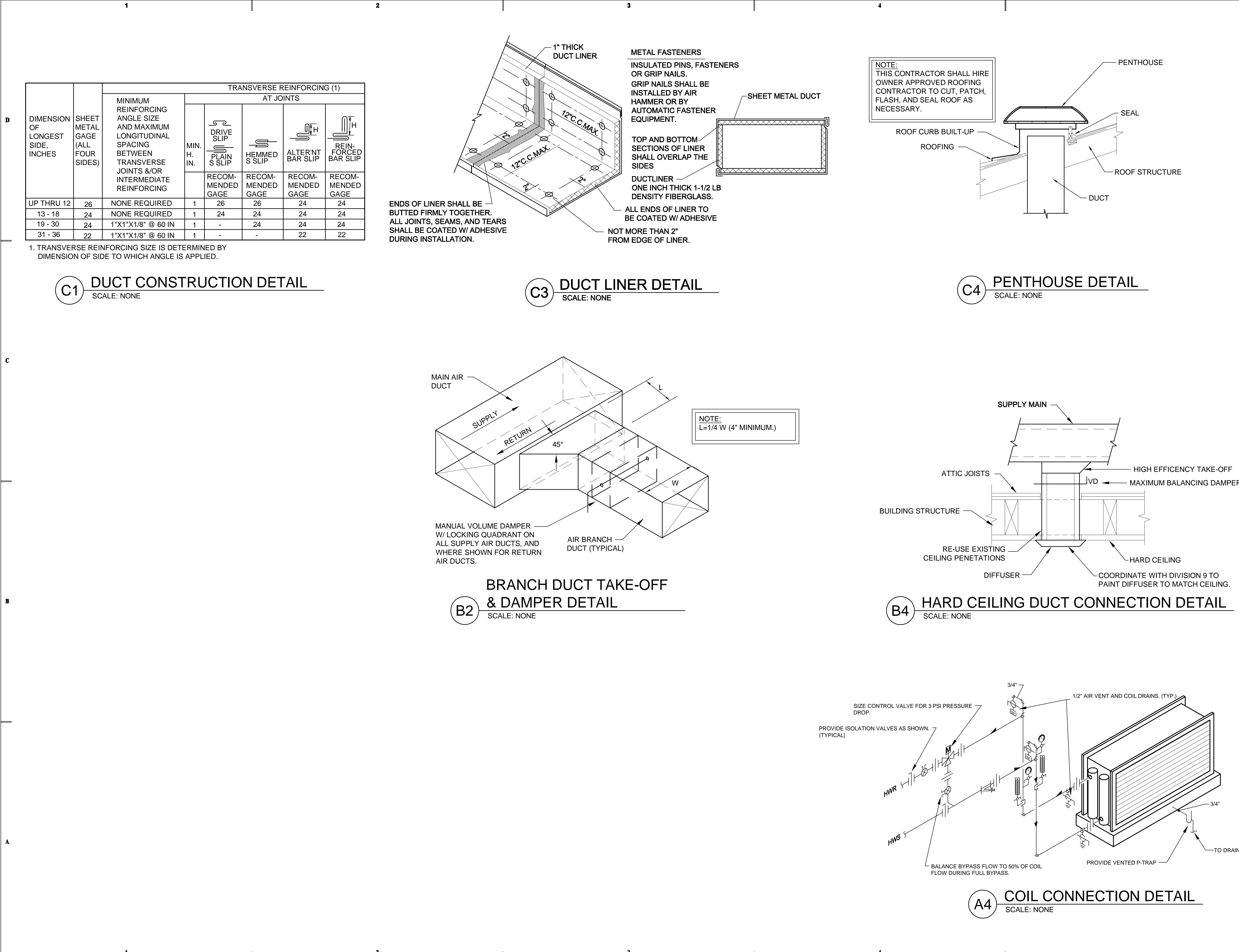
**MECHANICAL  
DEMOLITION FLOOR  
PLAN**

SHEET NO.

**MD101**







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PROJECT NAME & ADDRESS

**GOVERNOR'S MANSION HVAC REPLACEMENT**

DFCM# 06182310

SALT LAKE CITY, UTAH

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SHEET TITLE	

**MECHANICAL DETAILS**

D

C

B

A

WATER ECONOMIZER SCHEDULE												
SYMBOL	GPM	MAX. OPER. WT. LBS.	OPERATING CONDITIONS				ELECTRICAL					MANUFACTURER AND MODEL #
			NET CAPACITY TONS	OUTDOOR AIR TEMP °F	WATER IN TEMP °F	WATER OUT TEMP °F	HP	VOLT	Ø	Hz	RPM	
<div><div>WE</div><div>1</div></div>	50		40	35	55	45						TSI FC-48

DIFFUSER SCHEDULE								
SYMBOL	TYPE	MAX CFM	FACE SIZE	NECK SIZE	CEILING TYPE	BLOW	PATTERN	SCHEDULE NOTES
<div>D-1CFM</div>	CEILING	1000	24x24	24x24	HARD	3--WAY	<div></div>	1,2,3,4
1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS. 2. MAXIMUM NC 25 AT CFM LISTED. 3. DIFFUSER SHALL HAVE A FULLY ADJUSTABLE AIR PATTERN. 4. DIFFUSER SHALL BE PRICE SMDA WITH SB90 SECTORIZING BAFFLE, OR EQUAL BY MANUFACTURERS LISTED IN SPECIFICATIONS.								

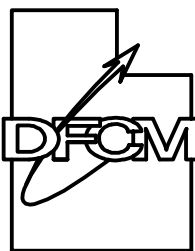
REGISTER, LOUVER & GRILLE SCHEDULE								
SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	COMMENTS	SCHEDULE NOTES
<div>R-1</div>	CEILING	RA	2000	24"X24"	24"X24"	HARD	PRICE 595	1,2,3
<div>PH-1</div>	ROOF MOUNTED	FA	5600	52"X20"X22"	16"X48"	NA	COOK 16x48 GI	2,4,5,6,7
<div>PH-2</div>	ROOF MOUNTED	RF	5600	63"x41"x16"	16"X48"	NA	COOK 16x48 GR	2,4,5,6,7
REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES:  1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED. 2. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS. 3. PRIMED COAT FOR RIELD PAINTING. 4. KYNAR FINISH WITH COLOR SELECTED BY OWNER TO MATCH COPPER ROOF. 5. PROVIDE ALUMINUM BIRD SCREENS. 6. PROVIDE PENTHOUSE WITH A MINIMUM 8.0 SQUARE FEET FREE AREA. 7. PROVIDE WITH ROOFCURB. THE CONTRACTOR SHALL HIRE AN APPROVED ROOFING CONTRACTOR (UTAH TILE AND ROOF) TO CUT, PATCH, AND SEAL ROOF.								

ALTERNATE #2

ALTERNATE #1

FAN COIL UNIT SCHEDULE																
SYMBOL	ROOMS SERVED	FAN (2 SPEED)				COOLING COIL (4 ROW)					HEATING COIL (2ROW)				MANUF. & MODEL #	SCHEDULE NOTES
		SCFM COOLING / HEATING	O.A. CFM	ESP	H.P.	MIN. REQ'D CAP. TOTAL MBH	MIN. REQ'D CAP. GPM	COND. ENT. EVAP. DB° F	CND. ENT. EVAP. WB° F	LAT DB/WB	MBH	MIN. GPM	EAT / LAT	EWT/LWT		
<div>FC1</div>	BALL ROOM	4400/2200	800	.75	1.5	165	31.5	80	67	56.4/55.5	267	14	60/105	180/150	MAGIC AIRE 180-HBAW	1,2,4
<div>FC5</div>	BILLARD ROOM	2200/1100	400	.75	1.0	80	17	80	67	56.4/55.5	140	9.0	60/105	180/150	MAGIC AIRE 90-HBAW	1,2,3
1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURES.																
2. VOLTAGE 120/160																
3. ADDITIVE ALTERNATE #1.																
4. ADDITIVE ALTERNATE #2.																

State of Utah  
Department of Administrative Services



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SHEET TITLE

**MECHANICAL  
SCHEDULES**

SHEET NO.

**ME601**